

~~with the results being buffered prior to being combined to form the transmitted signal. The transmission signal generated by combining the previously amplified analog subcarrier signals can be subjected to further amplification prior to transmission. Amplifiers with less dynamic range can normally be used to amplify individual subcarrier signals than is required to amplify a transmission signal generated from individual subcarrier signals which have not been subject to power amplification. Filters may be used to compensate for or correct signal distortions.~~ A cyclic prefix incorporated into subcarrier signals is designed to be of sufficient length that it covers delays introduced by filters in the individual subcarrier signal paths and common signal path. The incorporated cyclic prefix has a minimum duration determined as a function of several group signal delays including a common signal path group signal delay and a communications channel group signal delay.